Automated Government Tenders’ Information System

**Ministry Category:** Department of Defence Production

**Problem Statement:** Govt. to host a ministry level, automated tender information system

Development of Online Application to obtain real time info/track the status of any Government department related tenders by the vendors.

The app can also have provision for vendors to provide feedback, raise their concerns, this helps to improve transparency.

This can be an umbrella solution which can combine all info currently available in different Government department websites.

Team Members

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Technology Stack

Client Side Scripting Language: HTML, CSS, JavaScript, AngularJS

Server Side Scripting Language: Flask

Database: MongoDB

Cache & Session Management: Redis

(If access to database is not provided) :

Web Scraping: Selenium

Web Parser: BeautifulSoup

For Tender System

Tenders published by various Ministries & their departments on their respective websites are collected from their databases via APIs and displayed on the platform.

Various important details such as Start Date, End Date, Estimated Cost, etc. is displayed along with other Tender information.

Data regarding the tenders is accessed from the database by providing access to the database of the tendering system.

If access to the tender database of concerned ministry is not provided, data from respective websites will be collected through the scraping tools.

The data collected is stored in a database, and then published to the platform. The data is displayed in the form of a table, with the essential details about the tenders published.

Each record contains the following details:

* Name of Government department
* Name of the work/ tender
* Type of work
* Start date & time
* End date & time
* Estimated cost
* Hyperlink to the tender at respective department’s website

The vendor can search tenders, using filters for different ministries, type of work, estimated cost and other search parameters.

The vendor can also sort the displayed list according to the cost, start date and end date.

While registering, each vendor can give preferences about the type of work and budget range for the projects he is interested in. Now depending on the preferences, the vendor will be notified if any new tenders are added as per his specifications

Each vendor would have to pay an annual fee for the enabling the notification service (This could be Optional)

For Feedback/ Grievances

A Nodal Officer has to be elected by each Ministry who will be in-charge of responding to the queries of the vendors.

A Contractor/ Vendor once registered with the portal can provide feedback or report a grievance.

There would be a section through which they can provide feedback or raise a concern.

As soon as a concern is raised by any of the vendor, the Nodal Officer receives an (do not reply) email and the officer has to respond through the portal compulsorily.

The vendor will be notified by an email/ SMS about the response to their query.

For Nodal Officer

The nodal officers can view the tenders published by their department and the vendor details of the vendor who have applied for a particular tender.

Nodal Officer has the right to blacklist (block) a particular vendor for a particular tender because of their misbehaviour or other fraudulent activities.

They can also upload the selection criteria for each tender which will be displayed to the vendors before applying for a particular tender.